

VALUE ENGINEERING CHANGE PROPOSAL **MISSOURI DEPARTMENT OF TRANSPORTATION**

☒ Conceptual Proposal ☐ Final Proposal Date 7/20/10
 Contract ID 100618-601 Job No. J6U1028B
 County St. Charles 364/94 Original Bid Cost \$24,488,236.57
 Contractor Fred Weber, Inc. By Brett Lennon
 Designed By MODOT Phone 314-316-6154
 VECP# 10-80 (to be completed by C.O.) VECP ☒ or PDVECP ☐

1. Description of existing requirements and proposed change(s). Advantages/Disadvantages
See attached sheet.

2. Estimate of reduction in construction costs. \$29,717.03

3. Prediction of any effects the proposed change(s) will have on other department costs, such as maintenance and operations.
None

4. Anticipated date for submittal of detailed change(s) of items required by Section 104.6 of the Specifications.

8/16/10
(date)

5. Deadline for issuing a change order to obtain maximum cost reduction, noting the effect of contract completion time or delivery schedule.

9/1/10
(date)

(effect)

6. Dates of any previous or concurrent submission of the same proposal.

N/A
(date and/or dates)

Additional Comments:

**** Portion Below This Line To Be Filled Out by MoDOT ****

Comments: I recommend approval. The Excavation quantity needs to be verified by project office personnel. Additionally, the excavation class should be class A not class Y since it is greater than 18" outside the box.



Submitted By Resident Engineer

8-10-10

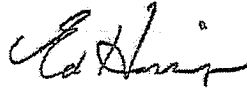
Date

Comments:

Must have cooperation between contractors for this to work. Recommend approval as long as both contractors are in agreement to move forward with this change.



Approval
Recommended



Digitally signed by Matthew Budd
DN: cn=Matthew Budd, o=MoDOT, ou=D6 Construction
and Materials, email=Matthew.Budd@modot.mo.gov, c=US
Date: 2010.08.17 13:30:51 -05'00'



Rejection
Recommended

District Engineer

Date

Comments:

N / A - Not a Federal Oversight Project



Approval
Recommended



Rejection
Recommended

Federal Highway Administration
Required for FHWA Full Oversight Projects

Date

Comments:

Approved on the merit of the proposal and the comments of the district. Denis Glascock. 8/18/2010



Digitally signed by Denis Glascock
DN: cn=Denis Glascock, c=US, o=MoDOT, ou=3H35, email=Denis.
Glascock@modot.mo.gov
Date: 2010.08.18 08:14:29 -05'00'



Approval



Rejection

State Construction and Materials Engineer

Date

Distribution: Resident Engineer, Project Manager, District Construction & Materials Engineer, State Construction & Materials Engineer, FHWA Value Engineering Administrator - MoDOT, P. O. Box 270, Jefferson City, MO 65102

1. Description of existing requirements and proposed change(s).

Advantages/Disadvantages

Currently temporary shoring is set up for the 8x10 box culvert on Mid Rivers Mall Drive. Shoring is set up on both jobs; J6U1028S contracted to Dave Kolb Grading and J6U1028B contracted to FWI. Kolb currently has to install temporary shoring to retain their fill from going off their job limits and going over the area where the 8x10 box culvert is to be constructed, which is shown to be completed before work on J6U1028B is to begin in that area. The current plans call for FWI to shore Kolb's existing shoring in Stage I to make an excavation for the 8x10 box culvert. By Kolb and FWI coordinating their work the requirement for shoring at this area can be eliminated for both contractors. Additional class 4 excavation will be required by FWI because of having to excavate the side that would have been shored at a 1:1 slope. Eliminating the need for temporary shoring will improve the construction schedule and will provide for a safer work place.

Savings Summary:

	<u>Quantity</u>		<u>Unit Price</u>	<u>Total</u>
Class 4	324	CY	\$47.50	-\$15,393.52
Shoring	1	LS	\$45,110.55	\$45,110.55

Savings				\$29,717.03
FWI				\$14,858.52
MODOT				\$14,858.52

Additional Class 4 Excavation:

*figured at 1:1 Slope

<u>Length (FT)</u>	<u>Cut (FT)</u>	<u>Width (FT)</u>	<u>CY</u>
175	10	10	324

Temporary Shoring:

*See attached sheet

Fred Weber, Inc.
BL100601
Brett Lennon

Route 364

DIRECT COST REPORT

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Activity	Desc	Quantity	Unit	Unit Cost	Labor	Perm	Constr	Equip	Sub-	Total
Resource		Pcs				Material	Mnt/Exp	Ment	Contract	

BID ITEM = 110 CLIENT# = 2065500 Land Item SCHDULE: 1 100
Description = TEMPORARY SHORING Unit = LS Takeoff Quan: 1.000 Engr Quan: 1.000

24135	Sheet Pile Driving	Quantity	Unit	Unit Cost	Labor	Perm	Constr	Equip	Sub-	Total
24135	Sheet Pile Driving	1.00	5,220.00 SF	35.00 CH	Prod: 149.1429 UH	Lab Pcs: 6.00	Eqp Pcs: 2.00			
2FSZ27	PZ 27 Sheet Pile	1.00	35.00 HR	200.000				7,000		7,000
8HCRAWCRAN	Crawler Cranes	1.00	35.00 HR	75.000				2,625		2,625
8MVIBHAM	Vibratory Hammer	1.00	35.00 HR	75.000				2,625		2,625
CARP	Carpenters STL	2.00	70.00 MH	32.480	4,797					4,797
CARPF	Carpenter Foreman STL	1.00	35.00 MH	33.980	2,489					2,489
OILR	Oilier STL	1.00	35.00 MH	24.520	2,272					2,272
OPER	Operator STL	2.00	70.00 MH	28.820	5,108					5,108
\$24,290.28	0.0402 MH/SF	210.00 MH		[1.526]	14,665			9,625		24,290

24140	Sheet Pile Pulling	Quantity	Unit	Unit Cost	Labor	Perm	Constr	Equip	Sub-	Total
24140	Sheet Pile Pulling	1.00	30.00 CH	Prod: 174.0000 UH	Lab Pcs: 6.00	Eqp Pcs: 2.00				
8HCRAWCRAN	Crawler Cranes	1.00	30.00 HR	200.000				6,000		6,000
8MVIBHAM	Vibratory Hammer	1.00	30.00 HR	75.000				2,250		2,250
CARP	Carpenters STL	2.00	60.00 MH	32.480	4,112					4,112
CARPF	Carpenter Foreman STL	1.00	30.00 MH	33.980	2,133					2,133
OILR	Oilier STL	1.00	30.00 MH	24.520	1,947					1,947
OPER	Operator STL	2.00	60.00 MH	28.820	4,378					4,378
\$20,820.27	0.0344 MH/SF	180.00 MH		[1.308]	12,570			8,250		20,820

Item Totals: 110 - TEMPORARY SHORING
\$45,110.55 390.0000 MH/LS 390.00 MH [14789.61] 27,236 17,875 45,111
45,110.55 1 LS 27,235.55 17,875.00 45,110.55

\$45,110.55 *** Report Totals *** 390.00 MH 27,236 17,875 45,111

>>> Indicates Non Additive Activity

Holding account totals will not be added to the report totals because the distribution is instead added to the various bid items.

-----Report Notes:-----

The estimate was prepared with TAKEOFF Quantities.

This report shows TAKEOFF Quantities with the resources.

Bid Date: 06/18/10 Owner: MoDot Engineering Firm:
Estimator-In-Charge:

JOB DOES NOT HAVE NOTES

* on units of MH indicate average labor unit cost was used rather than base rate.

[] in the Unit Cost Column = Labor Unit Cost Without Labor Burdens

In equipment resources, rent % and EOE % not = 100% are represented as XXX%YYY where XXX=Rent% and YYY=EOE%

-----Calendar Codes-----

Calendars are found in crew and labor codes and have the format XXXdY where

XXX = The Calendar and Y = The Starting Day of the Week with Day 1 = Monday, etc.

40 40 HR WEEK
42 40 HR WEEK DOUBLE SHIFT
45 45 HR WEEK
50 50 HR WEEK
60 60 HR WEEK
70 70 HR WEEK
N2 Premium Work
N3 Premium Work 5 Days / Week

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Activity Resource	Desc	Pcs	Quantity Unit	Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equip Ment	Sub- Contract	Total
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BID ITEM =	110	CLIENT# =	2065500	Land Item	SCHEDULE: 1	100			
Description =	TEMPORARY SHORING	Unit =		LS	Takeoff	Quan:	1.000	Engr Quan:	1.000
N4	Premium Work 6 Days/Week								
N5	Night Premium 7 Days / Week								
WK	Weekend Work								

VALUE ENGINEERING CHECK SHEET

TYPE OF WORK

(Check one that applies)

- ☐ Bridge/Structure/Footings
- ☐ Drainage Structures (RCP, RCB, CMP's, ect.)
- ☐ TCP/MOT
- ☐ Paving (PCCP, ect.)
- ☐ Grading/MSE Walls
- ☐ Signal/Lighting/ITS
- ☒ Misc

SUMMARY OF PROPOSAL

(If needed, condense summary to a couple of lines)

This VE involves two adjacent contractors/contracts that required shoring for each contract. By adjusting schedules, coordinating the work, and performing some additional excavation, the shoring could be eliminated.

SCANNING OF DOCUMENT

If the proposal is large, please mark or make note, which pages need to be scanned into the database. If there are special instructions, make note of them here.

